

GENERAL CONSTRUCTION NOTES

- GI. ALL CONSTRUCTION SHALL CONFORM TO APPLICABLE CITY, STATE AND FEDERAL CODES.
- G2. ALL SITE CONSTRUCTION SHALL CONFORM TO THE MOST RECENT EDITION OF THE CITY OF BISMARCK CONSTRUCTION SPECIFICATIONS FOR MUNICIPAL PUBLIC WORKS IMPROVEMENTS AS MODIFIED BY THE ATTACHED PLANS.
- GJ. CONTRACTOR MUST BE BONDED BY THE CITY OF BISMARCK FOR ALL CONSTRUCTION IN CITY RIGHT OF WAY OR WHICH CONNECTS TO A CITY UTILITY.
- G4. CONTRACTOR WILL BE REQUIRED TO OBTAIN ALL NECESSARY PERMITS.
- GS. IT MILL BE NECESSARY TO HAVE A PRIVATE ENGINEERING AND/OR TESTING FROM SET GRADES, DO COMPACTION TESTS AND PREPARE RECORD DRAMINGS FOR THE SEMER & WATER LINES. THE CITY ENGINEERING DEPARTMENT MILL REQUIRE TEST REPORTS AND RECORD DRAMINGS PRIOR TO ACCEPTING THE PRACECT ATTER COMPLETION.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL NECESSARY SAFEGUARDS SUCH AS WARNING SIGNS, BARRICADES & NIGHT LIGHTS AT HIS OWN EXPENSE.
- G7. PROTECT THE IMPROVEMENTS ON SITE AND ON THE ADJOINING PROPERTIES. PROVIDE BARRICADES, COVERINGS OR OTHER TYPE OF PROTECTION AS NECESSARY TO PREVENT DAMAGE TO ENSTRING UTILITIES.

WATERMAIN NOTES

- [WI] MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH CITY OF BISMARCK SPECIFICATIONS.
- ALL BACKFILL SHALL BE 95% OF STANDARD PROCTOR AT RECOMMENDED MOISTURE CONTENT.
- [WZ] WATERLINES SHALL BE CHLORINATED, PRESSURE TESTED AND FLUSHED. W3 ALL REQUIRED TESTING SHALL BE CONSIDERED INCIDENTAL.
- W4 A MINIMUM OF 18 INCHES OF VERTICAL SEPARATION SHALL BE MAINTAINED AT ALL WATER AND SEWER CROSSINGS.
- [MS] CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS AND ELEVATIONS OF CONNECTIONS INTO BUILDINGS.
- [WE] WATERMAIN STA. 0+75.03: INSTALL 6" WYE, 16 LF 6" WATERMAIN, 6
 GATE VALVE & BOX, 4 LF 6" WATERMAIN & 6" HYDRANT; INV. 60.10.
- [WZ] WATERMAIN STA. 1+24.74: INSTALL 6"X1" TAPPING SADDLE AND CORPORATION STOP; 6" INV. 60.32; INSTALL 2.00 LF 1" MATER SERVICE AND 1" CURB STOP AND BOX; INV. 60.82; INSTALL 22.2 LF 1" WATER SERVICE TO TEMPORARY CAP; INV. 6.3.50.
- [HB] WATERMAIN STA. 1+58,73: INSTALL 6"X1" TAPPING SADDLE AND CORPORATION STOP: 6" INV. 66.60, INSTALL 2.00 LF 1" MATER SERVICE AND 1" CURB STOP AND BOX; INV. 61.10, INSTALL 16.4 LF 1" WATER SERVICE TO TEMPORARY CAP, INV. 62.20.
- WŶ WATERMAIN STA. 2+48.71: INSTALL 6"X1" TAPPING SADDLE AND CORPORATION STOP; 6" INV. 61.33, INSTALL 2.00 LF 1" MATER SERVICE AND 1" CURB STOP AND BOX; INV. 61.83, INSTALL 82.8 LF 1" WATER SERVICE TO TEMPORARY CAP; INV. 63.20.

SANITARY SEWER NOTES

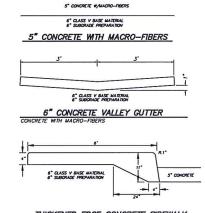
- SD MATERIALS AND CONSTRUCTION METHODS SHALL COMPLY WITH CITY OF BISMARCK SPECIFICATIONS.
- © ALL BACKFILL SHALL BE 95% OF STANDARD PROCTOR AT RECOMMENDED MOISTURE CONTENT.
- (SD) SANITARY SEWER MAIN SHALL BE TELEVISED
- ALL REQUIRED TESTING SHALL BE CONSIDERED INCIDENTAL.
- (\$\frac{1}{2}\) A MINIMUM OF 18 INCHES OF VERTICAL SEPARATION SHALL BE MAINTAINED AT ALL WATER AND SEWER CROSSINGS.
- (S) CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS AND ELEVATIONS OF CONNECTIONS INTO BUILDINGS. (\$\tilde{S}\) SANITARY SEWER STA. 0+86.67; INSTALL 6" WYE; INV. 57.13, INSTALL 6" 45' BEND AND 10.83 IF 6" SANITARY SEWER 0 54.017% AND 6" 22.5' VERTICAL BEND AND CLEAN OUT; INV. 62.89, INSTALL 5.00 IF 6" SANITARY SEWER 0 10.400% AND 6" TEMPORARY CAP; INV. 63.50.
- (SD SANITARY SEWER STA. 1+40.69; INSTALL 6" WYE; INV. 58.26, INSTALL 6" 45" BEND AND 23.68 LF 6" SANITARY SEWER © 1.182% AND 6" CLEAN OUT; INV. 58.24", INSTALL 5.00 LF 6" SANITARY SEWER © 1.200% AND 6" TEMPORARY CAP; INV. 58.60.
- SD SANITARY SEWER STA. 2+29.92; INSTALL 6" WYE; INV. 60.14, INSTALL 6" 45' BEND AND 79.10 LF 6" SANITARY SEWER © 1.641% AND 6" CLEAN CUT; INV. 63.02, INSTALL 5.00 LF 6" SANITARY SEWER © 1.660% AND 6" TEMPORARY CAP; INV. 63.20.

PAVEMENT NOTES

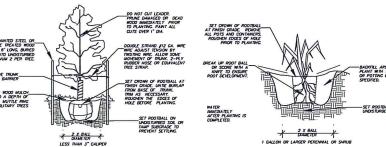
- (P2) ISOLATION JOINTS SHALL BE REQUIRED ALONG THE BUILDING, STOOPS AND ALL FIXED ITEMS. LEAVE JOINT W. LOW AND SEAL ISOLATION JOINTS SHALL BE SEALED USING JONE PART POLITIFICITIANE THE SEALANT.
- (P3) CONSTRUCTION JOINTS SHALL BE PLACED TO COINCIDE WITH CONTRACTION JOINT SPACING, CONSTRUCTION JOINTS SHALL HAVE A 1.5" DIAMETER HALF ROUND KEYWAY OR APPROVED COLUM
- (MAXIMUM JOINT SPACING SHALL BE 1.5 TIMES THE THICKNESS OF THE PAVEMENT (MEASURED IN INCHES) IN FEET (4" THICK CONCRETE = 6 FOOT JOINT SPACING). LENGTH/MOTH RATIO OF JOINTED PANELS MAY NOT EXCEED 1.5.
- (PS) SUBGRADE PREPARATION SHALL BE REQUIRED UNDER ALL AREAS TO BE PAVED AND SHALL BE 6" THICK AND SHALL COMPLY WITH CITY OF BISMARCK SPECIFICATIONS EXCEPT DENSITY SHALL BE 93% OF ASTM D 698.
- (PB) MACRO SYNTHETIC STRUCTURAL FIBERS (MACRO-FIBERS) SHALL CONFORM TO ASTM 1116/C 1116M, TYPE III. DOSACE SHALL BE AS RECOMMENDED BY THE MANUFACTURER TO ARCHIVE EQUIVALENT PERFORMANCE TO NO. 4 RE-BAR IN CENTER OF SLAB SPACED AT 24" O/C GRID. APPROXIMATELY 4 LBS_/CY.
- (P7) INSTALL STANDARD CURB AND GUTTER. CITY DETAIL NO. 600-12
- (PB) INSTALL COMMERCIAL CONCRETE SIDEWALK. CITY DETAIL NO. 600-02 THICKEN SIDEWALK TO 8" AT DRIVEWAY.
- (P9) INSTALL COMMERCIAL 8" CONCRETE DRIVEWAY. CITY DETAIL NO. 600-10 PID INSTALL 5" THICK CONCRETE WITH MACRO SYNTHETIC STRUCTURAL FIBERS.
- (PI) INSTALL 6" THICK CONCRETE VALLEY GUTTER WITH MACRO SYNTHETIC STRUCTURAL
- P12) INSTALL THICKENED EDGE CONCRETE SIDEWALK WITH MACRO SYNTHETIC STRUCTURAL (P13) SEE SHEET C2.0 FOR REMOVAL AND REPLACEMENT OF CONCRETE STREET NOTES.

SIGNAGE & PAVEMENT STRIPING

- ADA STRIPING FOR LANES AND SYMBOLS SHALL BE BLUE PAINT MEETING THE
 REQUIREMENT OF AASHTO M28 APPLIED AT A RATE OF 110 SOURE FEET PER GALLON PAINT FACE AND TOP OF CURB (6" MDE) IN FRONT OF ALL HANDICAP STALLS
- BESS PROVIDE AND INSTALL ADA SIGNS SECURED TO BUILDING.
- SSA PROVIDE AND INSTALL SIGN SECURED TO BUILDING THAT INDICATES VAN ACCESSIBLE SIGNS MUST INDICATE \$100 FINE:



THICKENED EDGE CONCRETE SIDEWALK



TREE PLANTING DETAIL

	SYM.	COMMON NAME	SCIENTIFIC NAME	SIZE	QNTY.
TREES	HL	HONEYLOCUST	Gleditsia triacanthos	1 1/2° Cal.	5
SHRUBS	AC	ALPINE CURRANT	Ribes alpinum	2 Gallon	33

SAFETY NOTICE TO CONTRACTOR

WARRANTY / DISCLAIME

NOTICE TO CONTRACTOR The location of existing underground utilities are shown in an approximativity only and have not been independently verified by the owner or its dispersional tolers. The Contractor shall determine the exact location of existing utilities before commencing each, and covers to be Author and assistant utilities before commencing each, and covers to be Author assistant utilities before commencing each, and covers to be Author assistant utilities.

PRELIMINARY-NOT FOR CONSTRUCTION, RECORDING PURPOSES OR IMPLEMENTATION

CALL BEFORE YOU DIG
NORTH DAKOTA
UTILLTIES UNDERGROUND LOCATION SERVICE
1-800-795-0555

Copyright (© 2018 by Swenson, Hogen & Co.

All rights reserved. No port of this drawing may be used or reproduced in any form or by any means without the express willen permission of Swenson Hogen & Co.

LANDSCAPING NOTES

- ALL CONTRACTORS MISHING TO SUBMIT BIDS FOR THIS LANDSCAPING PROJECT SHALL BE RESPONSIBLE FOR FIELD VERIFTING ALL CONDITIONS
- DAMAGE THAT OCCURS TO PLANTS DURING TRANSPORTATION AND INSTALLATION WILL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
- ALL PLANTING BEDS SHALL BE INSTALLED WITH 3" OF 1" CRUSHED ROCK MULCH, ANDSCAPE FABRIC WITH A MINIMUM WEIGHT OF 4 02,5"X, AND WHEREVER NECESSARY, 6" COMMERCIAL GRADE BLACK PLASTIC EDGING TO CONTAIN THE PLANTING BED.
- ALL LANDSCAPE PLANTINGS ARE TO BE WATERED BY THE LANDSCAPE CONTRACTOR THE SAME DAY THAT THE PLANTING OCCURS. IF WATER IS NOT AVAILABLE AT THE BUILDING, THE LANDSCAPE CONTRACTOR SHALL PROVIDE ALTERNATIVE METHODS FOR WATERING.
- SOUTARY TREES DO NOT NEED TO BE EDGED AROUND, HOMEVER ORGANIC WOOD MULCH SHALL BE PLACED AROUND THE TREE IN A MUTTLE RING THAT CONFORMS TO THE DETAIL PROVIDED FOR TIESE PLANTINGS.
- CONTRACTOR SHALL PROVIDE WRITTEN WARRANTIES CONFIRMING THE FOLLOWING:
 - FURNISHED TREES GUARANTEED TO LIVE AND REMAIN STRONG, VICOROUS, AND HEALTHY CONDITION FOR 365 DAYS MINIMUM FROM DATE LANDSCAPE INSTALLATION IS ACCEPTED AS COMPLETED.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING AND CARING FOR ALL PLANT MATERIAL, AND OTHER LANDSCAPING IMPROVEMENTS UNTIL THE DATE OF FINAL INSPECTION AND APPROVIAL.

TOPSOIL NOTES

- TO TOPSOIL IS STOCKPILED ON SITE AND WILL BE PLACE FOR THE LANDSCAPE CONTRACTOR TO SPREAD AND FINISH GRADE. ALL PORTIONS OF THE SITE NOT RECEIVING CONCRETE, CURB & CUTER OR OTHER IMPROVEMENTS SHALL BE COVERED WITH A MINIMUM OF 6" OF TOPSOIL AND SEEDED ACCORDING TO SPECIFICATIONS.
- TOPSOIL SHALL BE PLACED AND SEEDED AS SOON AS PRACTICAL TO MINIMIZE WHID AND WATER EROSION. BACKFILL BEHIND CURB AND GUITERS AND SDEWALK AS SOON AS REASONABLE TO PREVENT STANDING WATER AND PROJECT THE IMPROVEMENTS.

SEEDING NOTES

- FERTILIZE SOIL DURING THE SEEDING PROCESS USING AN APPROPRIATE APPLICATION PROCESS. FERTILIZER SHALL BE 10–10–10 AND APPLIED AT A RATE OF 4 LBS. PER 1000 SOLVARE FEET.
- SEED SHALL BE CITY OF BISMARCK CLASS II (SUNNY) DRILL SEEDED TO A DEPTH OF 1/4" TO 1/2" AND SHALL BE EVENLY SPREAD. AFTER SEED HAS BEEN SOWN, THE SOLL SHALL BE FEARDACED IMMEDIATELY AFFER THE SEED IS APPUED TO FIRM THE SOLL AROUND THE SEED. NO SEED SHALL BE FULCED ON DATS WHERE THE WIND IS STRONG ENOUGH TO PREVENT IT FROM BEING PROPERLY IMBEDDED WITO THE SOIL.
- SEED MUST SHOW A DENSITY OF 20 TO 30 SEEDLINGS PER SOURCE FOOT BEFORE ACCEPTANCE MILL OCCUR. THE CONTRACTOR SHALL FURNISH AND REPLACE WITHOUT CONTRACTOR SHALL FURNISH AND REPLACE WITHOUT CHRUMATED, HAVE DEED, OF ARE DAMAGED TO THE EVENT THAT REPLACEMENT IS REQUIRED TO CONFIGNATION TO THE REQUIREDRESS OUTLINED ABOVE. THE CONTRACT WARRANTY PERSON SHALL ALSO APPLY TO THIS ITEM.

FENCING NOTES

(F) INSTALL 6' HIGH OPAQUE VINYL FENCE WITH 2 SWING GATES FOR DUMPSTER.

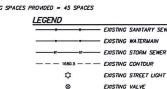
LANDSCAPING REQUIREMENTS

PROVIDED STREET TREES: REQUIRED STREET TREES: 3 PER 100 FEET = 5 TREES REQUIRED PERIMETER PARKING: PROVIDED PERIMETER PARKING

PARKING REQUIREMENTS

1,500 SF RETAIL/OFFICE © 1 SPACE/250 SF = 6 SPACES 8,640 SF STORAGE SPACE © 1 SPACE/600 SF = 14 SPACES 5 SHOP CONDOS © 5 SPACES PER SHOP= 25 SPACES TOTAL REQUIRED PARKING SPACES = 45 SPACES

TOTAL PARKING SPACES PROVIDED = 45 SPACES



EXISTING VALVE EXISTING FIRE HYDRANT EXISTING UTILITY RISER Δ E EXISTING UTILITY BOX EXISTING CONCRETE

EXISTING GRAVEL/ROCK MULCI 68.44 67.59 CB EXISTING GRADE PROPOSED SANITARY SEWER PROPOSED WATERMAIN - PROPOSED FENCE

PROPOSED VALVE PROPOSED FIRE HYDRAN PROPOSED CONCRETE PROPOSED GRAVEL



NGVD 29 DATUM AUGUST 20, 2018

---- 63.5 PROPOSED CONTOUR 63.00 cb PROPOSED GRADE SCALE - 1" = 20"

CHECK BY: JP DATE: _ PROJ. #: 520-17 COMPUTER FILE: 2:\BIS\TRILLIUM\TRIL 4TH\LOT 2A BK 4 SITE PLAN.dwg

> SHEET C3.0